

TEST REPORT

Product Name : EV Flex-AC Charger
Model Number : EFAC40NA11、EFAC40NA12、
EFAC32NA11、EFAC32NA12
FCC ID : 2A88ZEFACN

Prepared for : Xinyi Electric Storage (Shenzhen) Co., Ltd
Address : Room 501,602,606,608,610, Building A5, Tianrui Industrial
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Report Number : ENS2209270085W00201R
Date(s) of Tests : September 28,2022 to October 31, 2022
Date of issue : November 15, 2022

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TEST REPORT DESCRIPTION

Applicant : Xinyi Electric Storage (Shenzhen) Co., Ltd

Address : Room 501,602,606,608,610, Building A5, Tianrui Industrial Park, No. 35, Fuyuan 1st Road, Fuhai, Bao 'an, Shenzhen

Manufacturer : Xinyi Electric Storage (Shenzhen) Co., Ltd

Address : Room 501,602,606,608,610, Building A5, Tianrui Industrial Park, No. 35, Fuyuan 1st Road, Fuhai, Bao 'an, Shenzhen

Trade Mark : N/A

EUT : EV Flex-AC Charger

Model Number : EFAC40NA11、EFAC40NA12、EFAC32NA11、EFAC32NA12

Measurement Procedure Used:

FCC CFR Title 47, Part 15, Subpart B
ANSI C63.4-2014

The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EMTEK (SHENZHEN) CO., LTD. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment under Test) is technically compliant with these requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (SHENZHEN) CO., LTD.

Date of Test : September 28,2022 to October 31, 2022

Prepared by : 
Una Yu/Editor

Reviewer : 
Joe Xia/Supervisor

Approved & Authorized Signer : 
Lisa Wang/Manager



Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	ENS2209270085W00201R	/	Original Version



1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Disturbance at Mains Terminals	FCC Part 15, Subpart B- Section 15.107, Class B ANSI C63.4-2014	Pass
Radiated Disturbance	FCC Part 15, Subpart B- Section 15.109, Class B ANSI C63.4-2014	Pass
Note: N/A is an abbreviation for Not Applicable.		



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : EV Flex-AC Charger

Model Number : EFAC40NA11、EFAC40NA12、EFAC32NA11、EFAC32NA12

Sample Number : 1#

power supply : AC 120V or 240V,60Hz
Max 40A 9.6kW see adapter

Date of Received : September 27, 2022

2.2. Input / Output Ports

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

Notes:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

2.3. Independent Operation Modes

- A. Full load
- B. Stand-By

2.4. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted Emission	AC 120V/60Hz	Mode A	Mode A
Radiated Emission (up to 1G)	AC 120V/60Hz	Mode A	Mode A
Radiated Emission (Above 1G)	AC 120V/60Hz	Mode A	Mode A

2.5. Description of Test Facility

Site Description	
EMC Lab.	: Accredited by CNAS The Certificate Registration Number is L2291. The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017) Accredited by FCC Designation Number: CN1204 Test Firm Registration Number: 882943 Accredited by A2LA The Certificate Number is 4321.01. Accredited by Industry Canada The Conformity Assessment Body Identifier is CN0008
Name of Firm	: EMTEK (SHENZHEN) CO., LTD.
Site Location	: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

2.6. Test Software

Item	Software
Conducted Emission	: EMTEK(Ver.CON-03A1)-Shenzhen
Radiated Emission	: EMTEK(Ver.RA-03A1)-Shenzhen

2.7. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission Uncertainty	: 3.16dB(9k~150kHz Conduction 2#) 2.90dB(150k-30MHz Conduction 2#)
Radiated Emission Uncertainty (3m Chamber)	: 3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V) 4.46dB (1~6GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

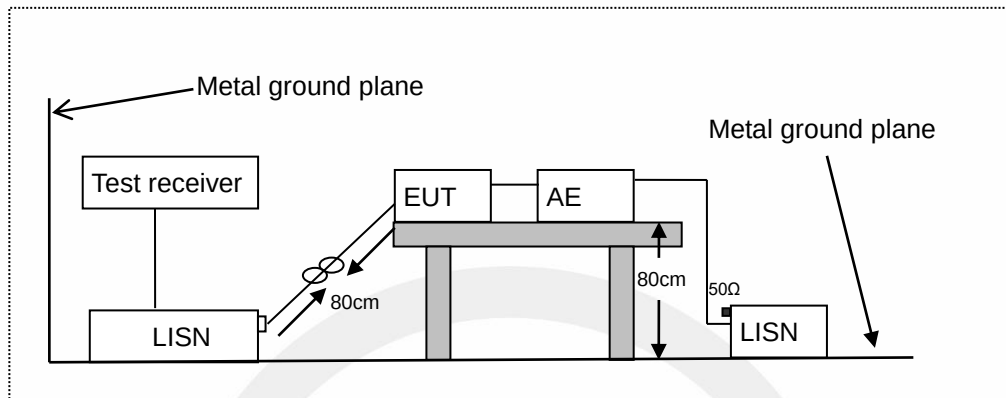
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 14, 2022	1 Year
L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z5	100191	May 15, 2022	1 Year
50Ω Coaxial Switch	Anritsu	MP59B	M20531	May 14, 2022	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100107	May 14, 2022	1 Year

3.2. For Radiated Emission Measurement

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESU 26	100154	May 14, 2022	1 Year
Pre-Amplifier	HP	8447F	2944A07999	May 14, 2022	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	712	July 5, 2021	2 Year
Cable	Schwarzbeck	AK9513	ACRX1	May 14, 2022	1 Year
Cable	Rosenberger	N/A	FP2RX2	May 14, 2022	1 Year
Cable	Schwarzbeck	AK9513	CRPX1	May 14, 2022	1 Year
Cable	Schwarzbeck	AK9513	CRRX2	May 14, 2022	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCI	101414	May 15, 2022	1 Year
Pre-Amplifier	SKET	LNPA_0118G-45	SK2019051801	May 14, 2022	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-399	June 12, 2021	2 Year
Cable	H+B	0.5M SF104-26.5	289147/4	May 14, 2022	1 Year
Cable	H+B	3M SF104-26.5	295838/4	May 14, 2022	1 Year
Cable	H+B	6M SF104-26.5	295840/4	May 14, 2022	1 Year

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network
AE: Associated equipment
EUT: Equipment under test

4.2. Limits

FCC Part 15, Subpart B, Class B

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.
NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the

centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

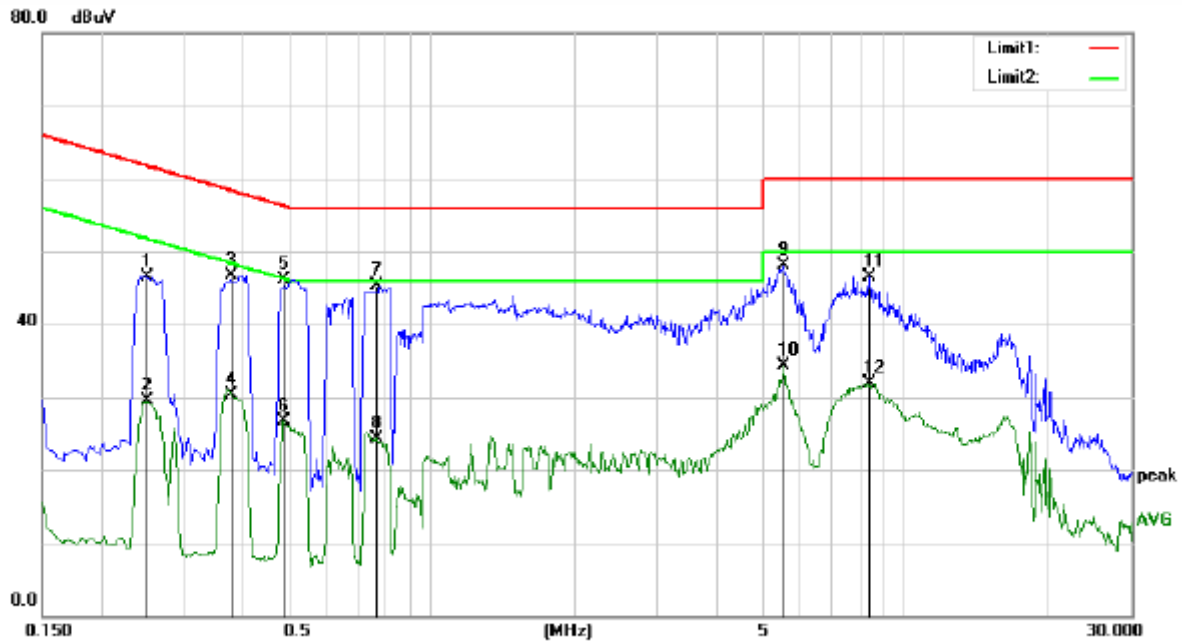
Emission Level (dB μ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB μ V)

Margin (dB) = Emission Level (dB μ V) - Limit (dB μ V)

4.4. Measuring Results

Pass

All the modes were tested and the data of the worst modes are attached the following pages.



Site Conduction #2

Phase: L1

Temperature: 25.1

Limit: (CE)FCC PART 15 class B_QP

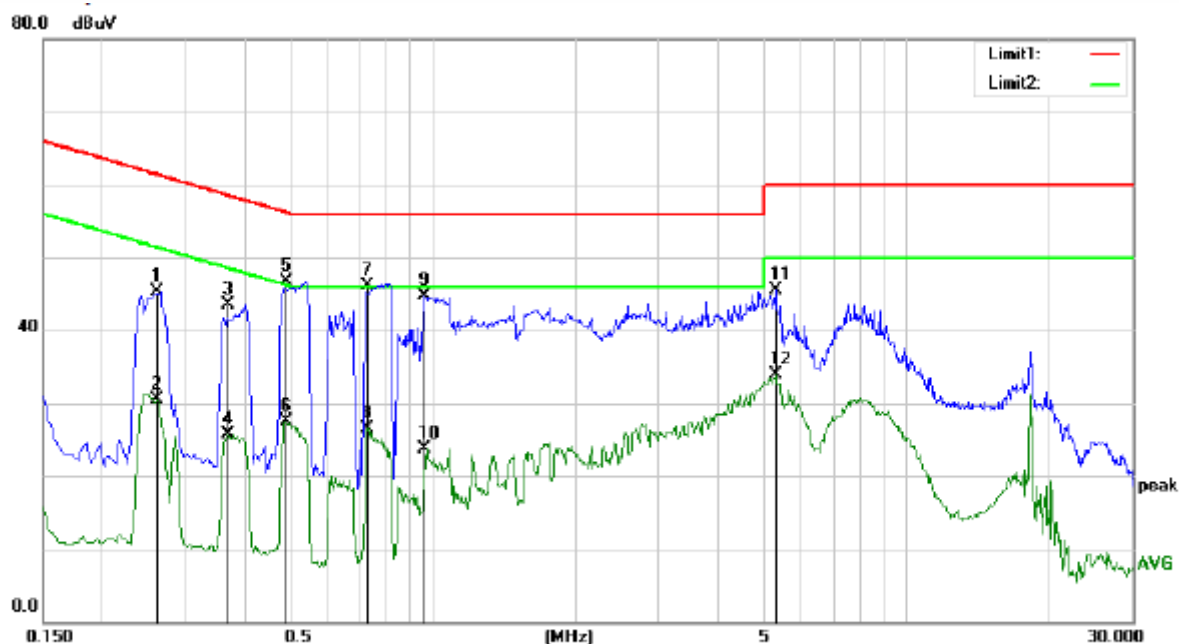
Power: AC 120V/60Hz

Humidity: 45 %

Mode: FULL LOAD

Note: +X

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2500	36.35	10.10	46.45	61.76	-15.31	QP	
2		0.2500	19.33	10.10	29.43	51.76	-22.33	AVG	
3		0.3780	36.59	10.10	46.69	58.32	-11.63	QP	
4		0.3780	20.13	10.10	30.23	48.32	-18.09	AVG	
5	*	0.4863	36.03	10.10	46.13	56.23	-10.10	QP	
6		0.4863	16.65	10.10	26.75	46.23	-19.48	AVG	
7		0.7660	35.14	10.15	45.29	56.00	-10.71	QP	
8		0.7660	14.15	10.15	24.30	46.00	-21.70	AVG	
9		5.5140	37.93	10.27	48.20	60.00	-11.80	QP	
10		5.5140	24.10	10.27	34.37	50.00	-15.63	AVG	
11		8.3940	36.05	10.37	46.42	60.00	-13.58	QP	
12		8.3940	21.49	10.37	31.86	50.00	-18.14	AVG	



Site Conduction #2

Phase: **N**

Temperature: 25.1

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 45 %

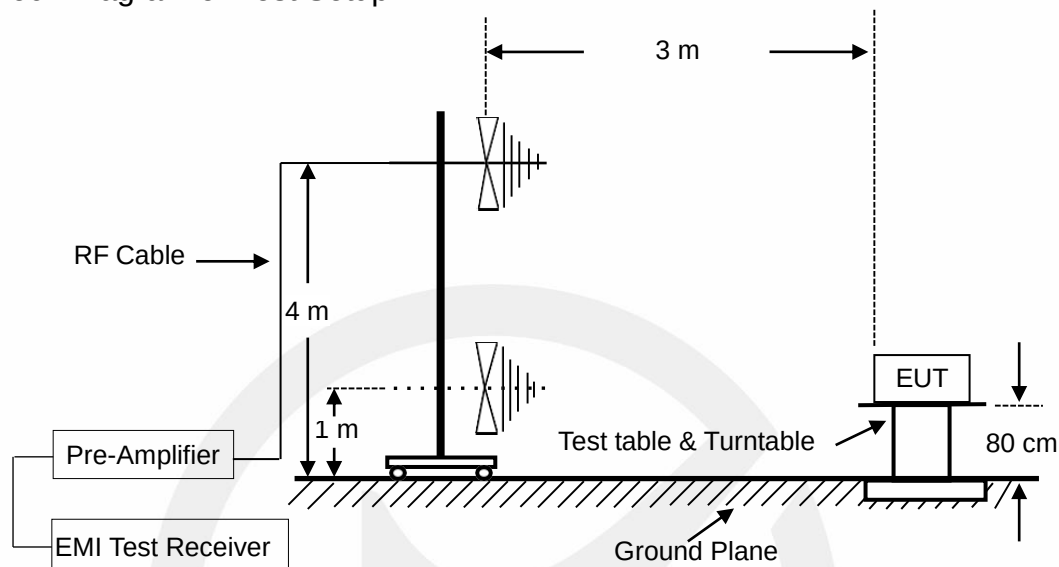
Mode: FULL LOAD

Note: +X

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2620	35.12	10.10	45.22	61.37	-16.15	QP	
2		0.2620	20.45	10.10	30.55	51.37	-20.82	AVG	
3		0.3700	33.37	10.10	43.47	58.50	-15.03	QP	
4		0.3700	15.63	10.10	25.73	48.50	-22.77	AVG	
5	*	0.4900	36.60	10.10	46.70	56.17	-9.47	QP	
6		0.4900	17.33	10.10	27.43	46.17	-18.74	AVG	
7		0.7300	35.90	10.14	46.04	56.00	-9.96	QP	
8		0.7300	16.37	10.14	26.51	46.00	-19.49	AVG	
9		0.9620	34.47	10.18	44.65	56.00	-11.35	QP	
10		0.9620	13.53	10.18	23.71	46.00	-22.29	AVG	
11		5.2780	35.30	10.26	45.56	60.00	-14.44	QP	
12		5.2780	23.73	10.26	33.99	50.00	-16.01	AVG	

5. RADIATED EMISSION MEASUREMENT (UP TO 1GHz)

5.1. Block Diagram of Test Setup



5.2. Radiated Limit

FCC Part 15, Subpart B, Class B

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

5.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of

typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The bandwidth of the Receiver is set at 120 kHz.

Test results were obtained from the following equation:

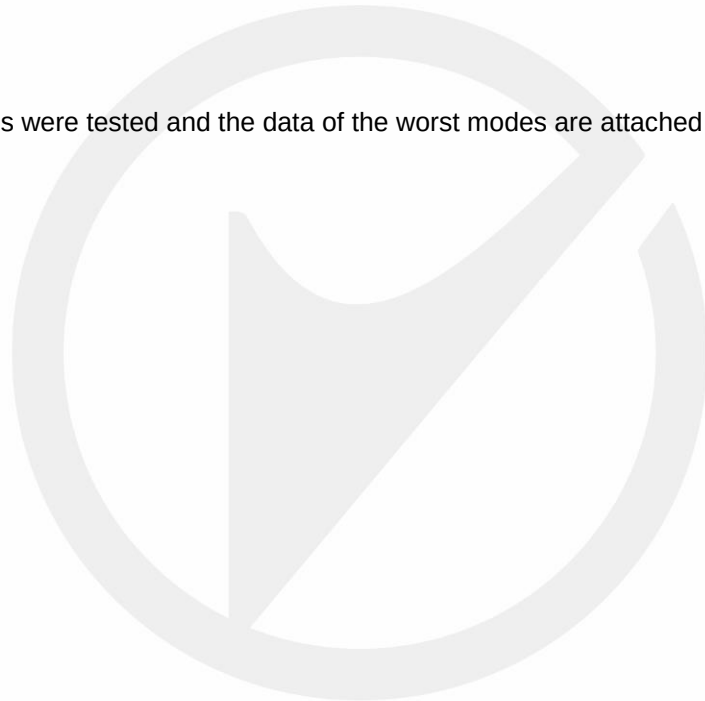
Emission level (dB μ V/m) = Antenna Factor - Amp Factor + Cable Loss + Reading

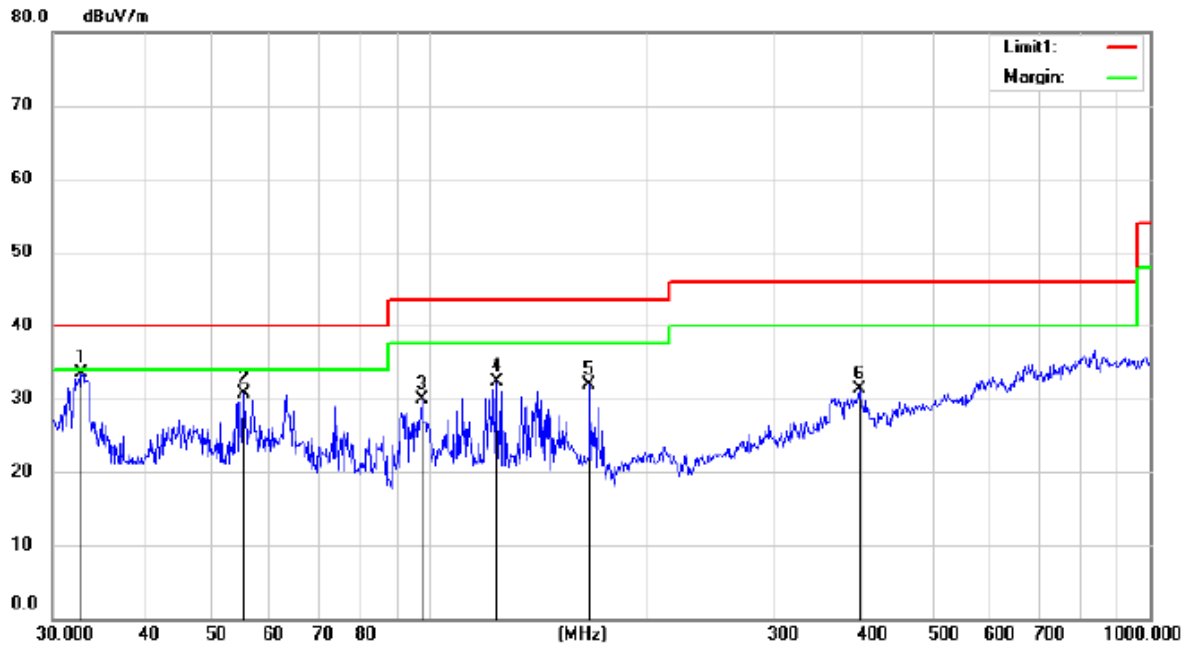
Margin (dB) = Emission Level (dB μ V/m) - Limit (dB μ V/m)

5.4.Measuring Results

PASS.

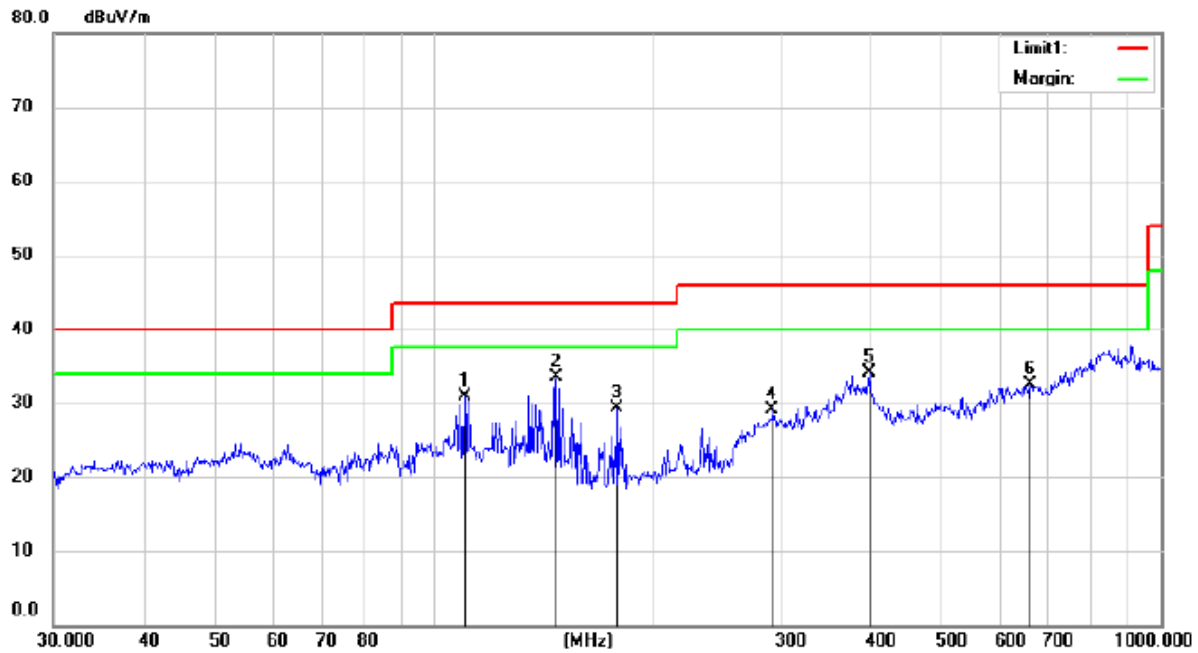
All the modes were tested and the data of the worst modes are attached the following pages.





Site 3m Chamber #3 Polarization: **Vertical** Temperature: 25.7 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 55 %
 Mode: Full load
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	32.8635	43.30	-9.75	33.55	40.00	-6.45	QP		
2		55.2207	38.50	-7.72	30.78	40.00	-9.22	QP		
3		97.4560	40.68	-10.73	29.95	43.50	-13.55	QP		
4		123.6984	42.73	-10.37	32.36	43.50	-11.14	QP		
5		166.6511	42.44	-10.55	31.89	43.50	-11.61	QP		
6		394.8543	34.25	-2.93	31.32	46.00	-14.68	QP		



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 25.7 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 55 %

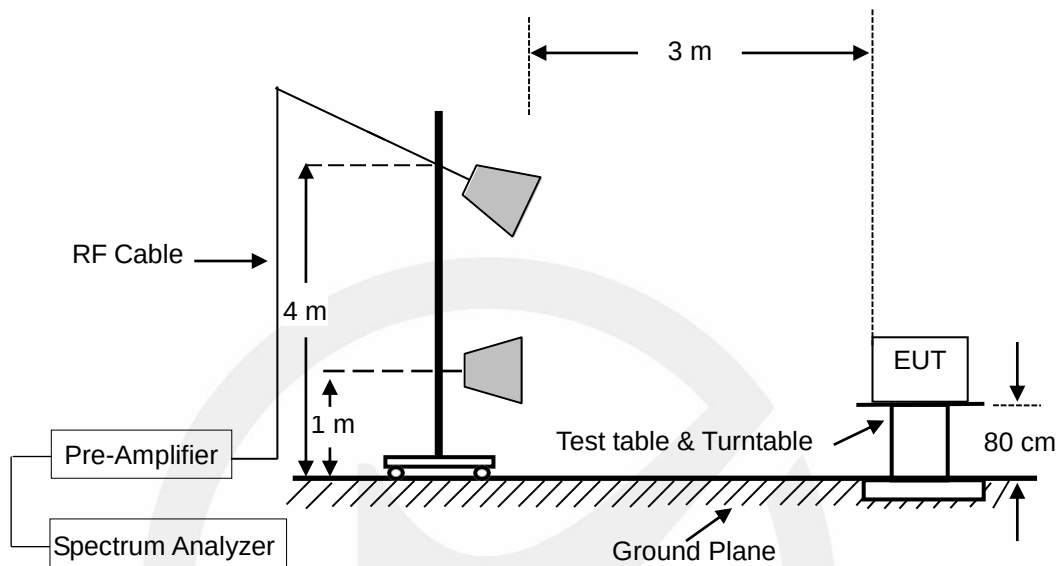
Mode: Full load

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		110.1816	41.49	-10.58	30.91	43.50	-12.59	QP		
2	*	147.4036	43.56	-10.03	33.53	43.50	-9.97	QP		
3		178.7582	39.75	-10.43	29.32	43.50	-14.18	QP		
4		292.0581	35.16	-6.05	29.11	46.00	-16.89	QP		
5		397.6333	36.88	-2.82	34.06	46.00	-11.94	QP		
6		661.1503	28.87	3.58	32.45	46.00	-13.55	QP		

6. RADIATED EMISSION MEASUREMENT (ABOVE 1GHz)

6.1. Block Diagram of Test Setup



6.2. Radiated Limit

FCC Part 15, Subpart B, Class B

Frequency range MHz	Average limit dB(μ V/m)	Peak limit dB(μ V/m)
Above 1000	54	74

Note: The highest internal source of an EUT is defined as the highest frequency generated or used in the device or on which the EUT operates or tunes. If the highest frequency of the internal sources of the EUT is less than 1.705 MHz, the measurement shall only be made up to 30 MHz. If the highest frequency of the internal sources of the EUT is between 1.705 MHz and 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

6.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with peak detector for peak values, and use RBW=1 MHz and VBW=10 Hz with peak detector for Average Values.

Test results were obtained from the following equation:

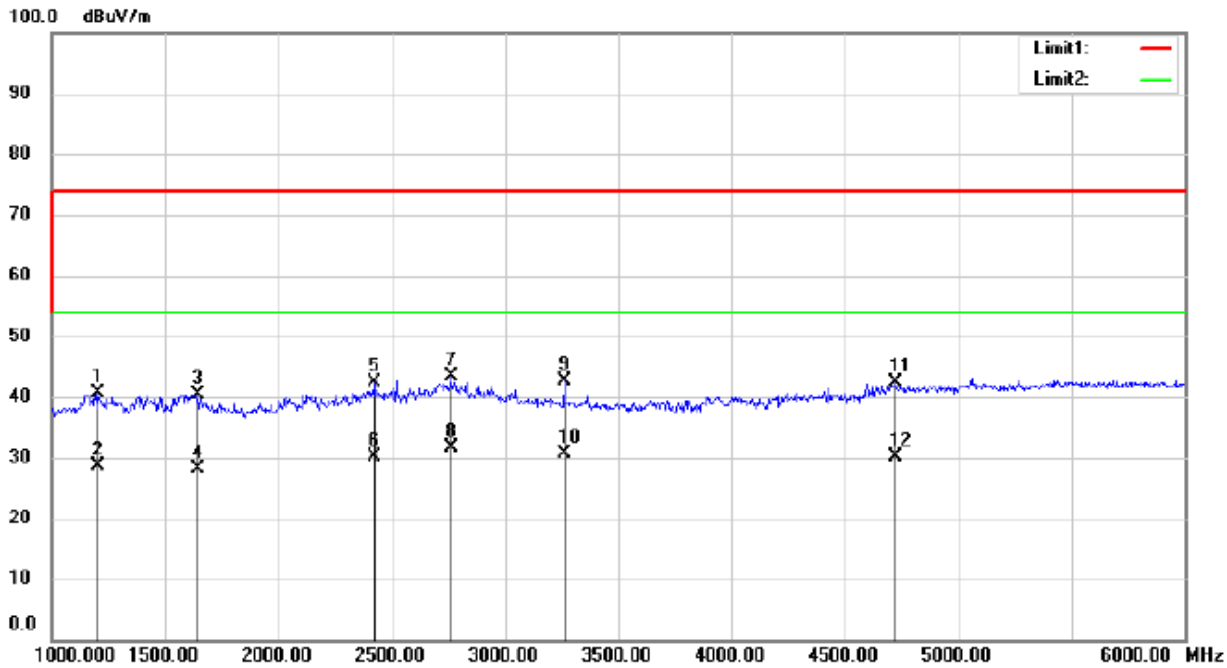
Emission level (dB μ V/m) = Antenna Factor - Amp Factor + Cable Loss + Reading

Margin (dB) = Emission Level (dB μ V/m) - Limit (dB μ V/m)

6.4. Measuring Results

PASS.

All the modes were tested and the data of the worst modes are attached the following pages.



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 25.7 C

Limit: (RE)FCC PART 15 CLASS B

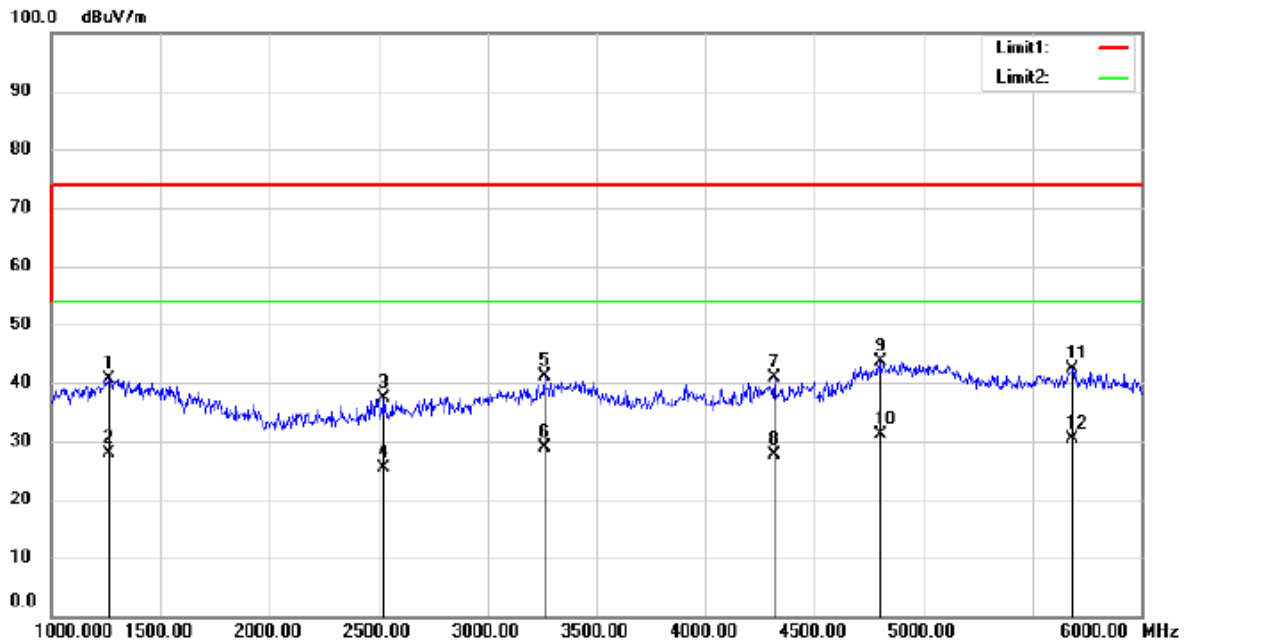
Power: AC 120V/60Hz

Humidity: 55 %

Mode: Full load

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		1205.000	58.34	-17.73	40.61	74.00	-33.39	peak		
2		1205.000	46.43	-17.73	28.70	54.00	-25.30	AVG		
3		1645.000	58.83	-18.33	40.50	74.00	-33.50	peak		
4		1645.000	46.53	-18.33	28.20	54.00	-25.80	AVG		
5		2425.000	58.30	-15.94	42.36	74.00	-31.64	peak		
6		2425.000	46.04	-15.94	30.10	54.00	-23.90	AVG		
7		2760.000	58.26	-14.82	43.44	74.00	-30.56	peak		
8	*	2760.000	46.52	-14.82	31.70	54.00	-22.30	AVG		
9		3260.000	56.70	-13.95	42.75	74.00	-31.25	peak		
10		3260.000	44.55	-13.95	30.60	54.00	-23.40	AVG		
11		4725.000	51.43	-8.95	42.48	74.00	-31.52	peak		
12		4725.000	39.15	-8.95	30.20	54.00	-23.80	AVG		



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 25.7 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 55 %

Mode: Full load

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1265.000	58.28	-17.61	40.67	74.00	-33.33	peak		
2		1265.000	45.41	-17.61	27.80	54.00	-26.20	AVG		
3		2525.000	52.75	-15.46	37.29	74.00	-36.71	peak		
4		2525.000	40.76	-15.46	25.30	54.00	-28.70	AVG		
5		3260.000	55.19	-13.95	41.24	74.00	-32.76	peak		
6		3260.000	42.85	-13.95	28.90	54.00	-25.10	AVG		
7		4315.000	51.17	-10.20	40.97	74.00	-33.03	peak		
8		4315.000	37.90	-10.20	27.70	54.00	-26.30	AVG		
9		4800.000	52.39	-8.70	43.69	74.00	-30.31	peak		
10	*	4800.000	39.90	-8.70	31.20	54.00	-22.80	AVG		
11		5685.000	49.24	-6.75	42.49	74.00	-31.51	peak		
12		5685.000	37.25	-6.75	30.50	54.00	-23.50	AVG		

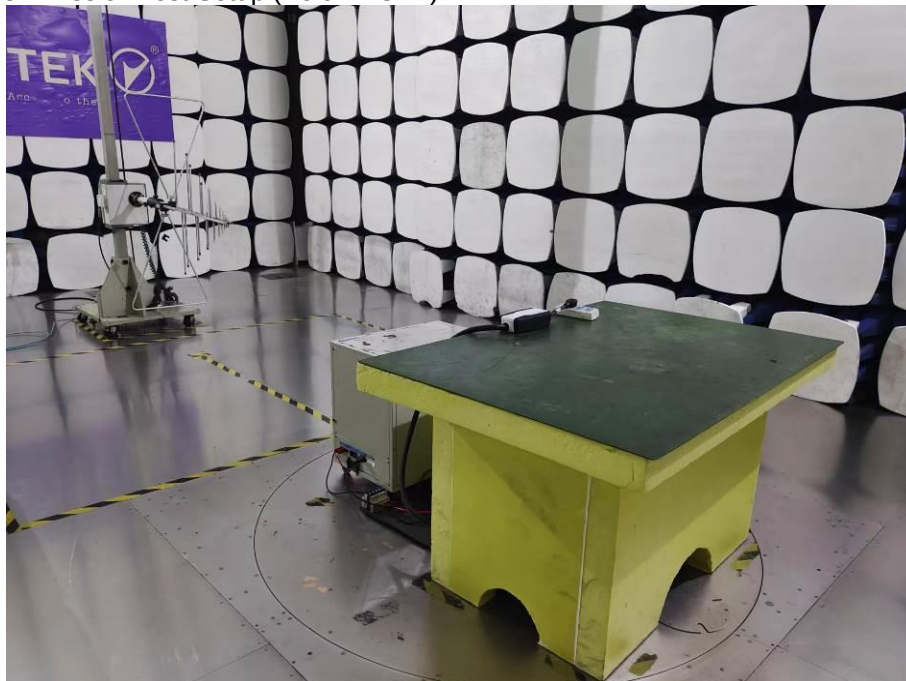
7. PHOTOGRAPHS

7.1. Photos of Conducted Emission Measurement

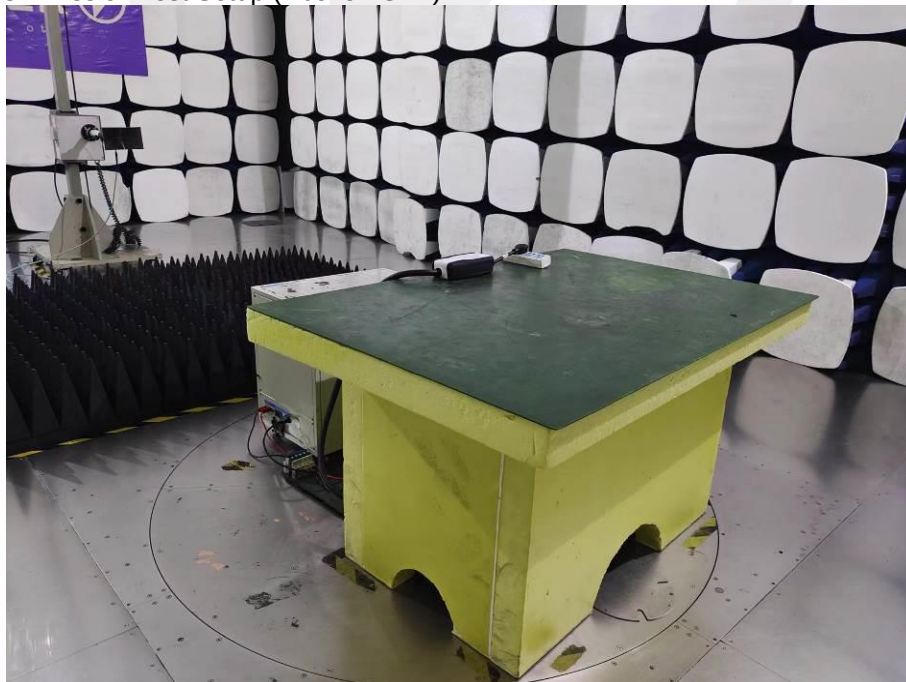


7.2. Photos of Radiation Emission Measurement

Spurious Emission Test Setup (Below 1GHz)



Spurious Emission Test Setup (Above 1GHz)



APPENDIX A: Label Requirements

(1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90 of this chapter, etc., shall bear the following statement in a conspicuous location on the device:

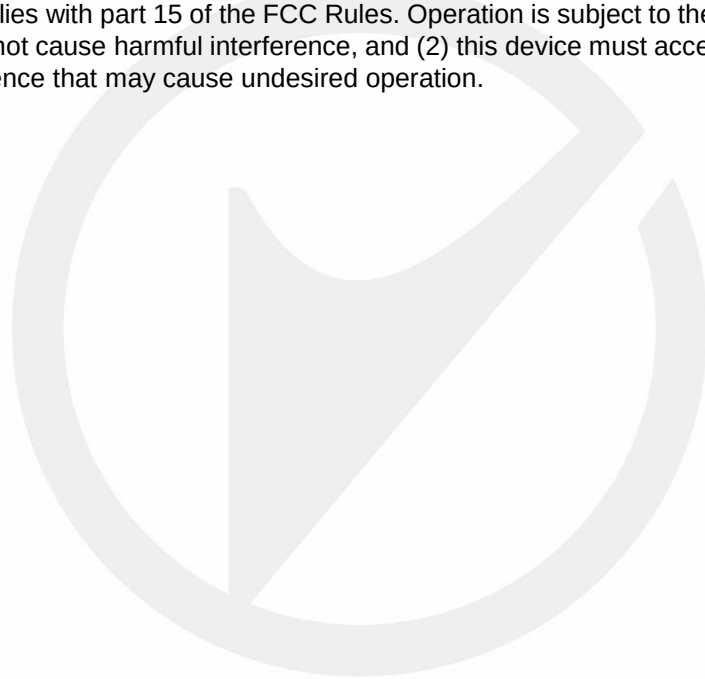
This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



APPENDIX B: Warning Statement

(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

APPENDIX C: Photos of EUT

EUT View 1



EUT View 2



EUT View 3**EUT View 4**

EUT View 5



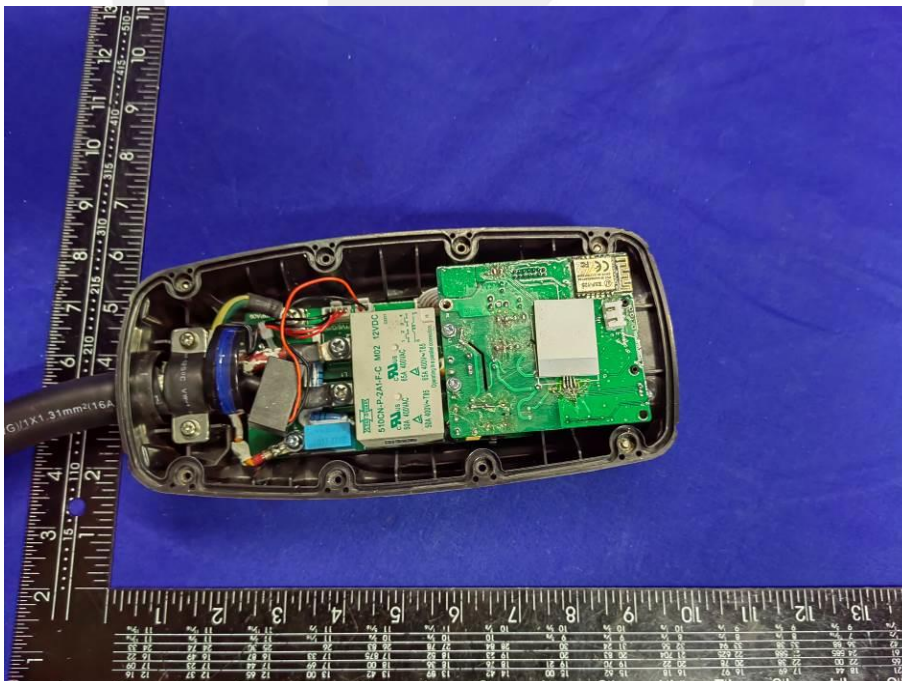
EUT View 6



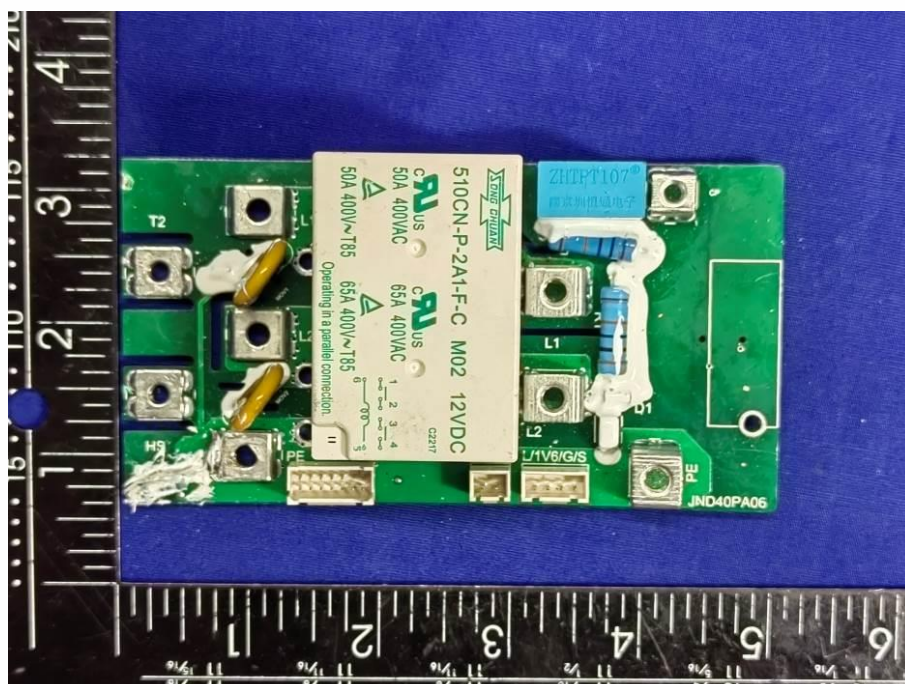
EUT View 7



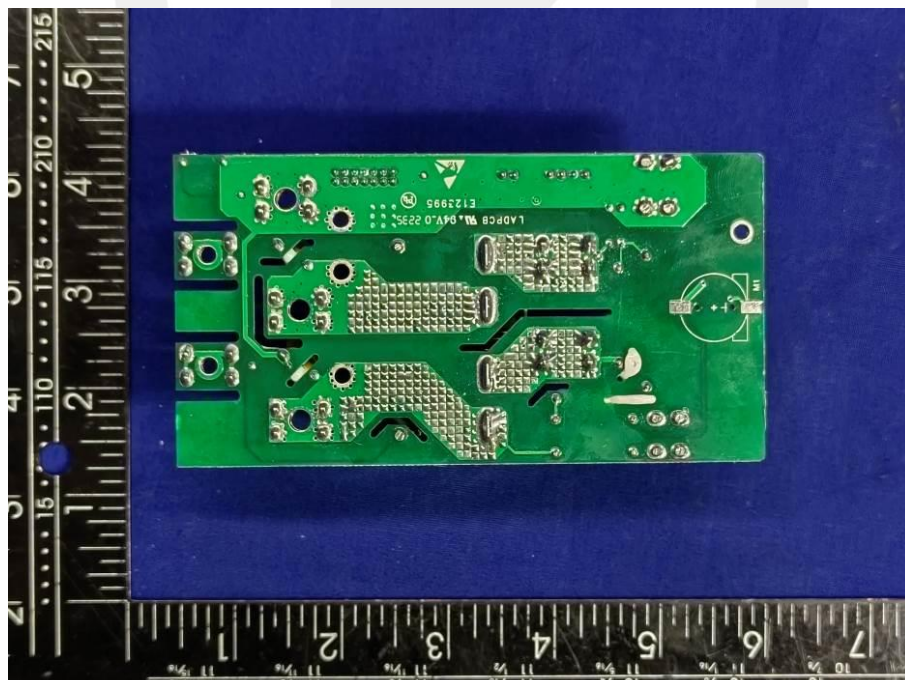
EUT View 8



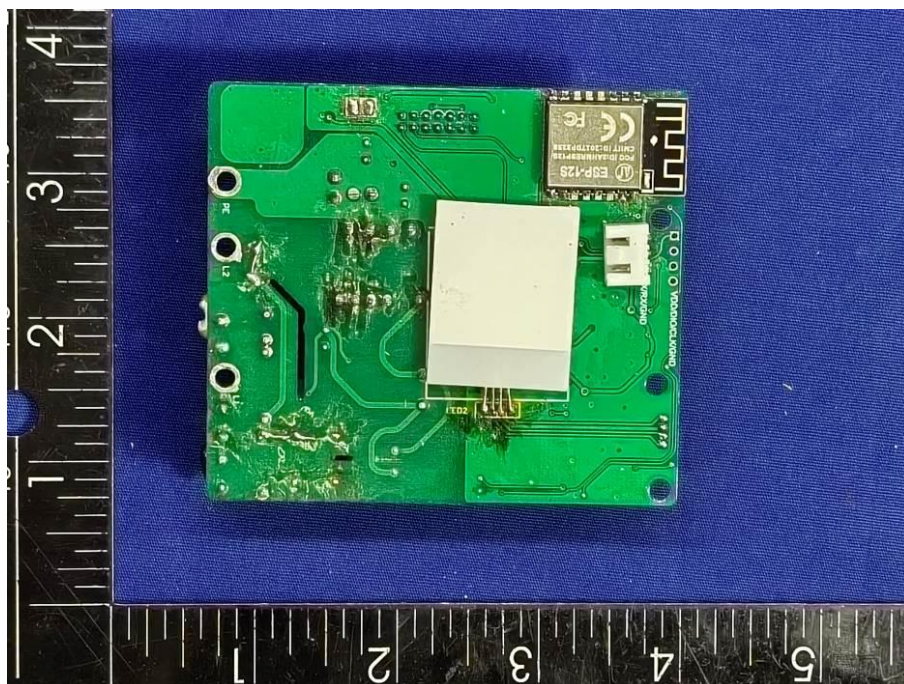
EUT View 9



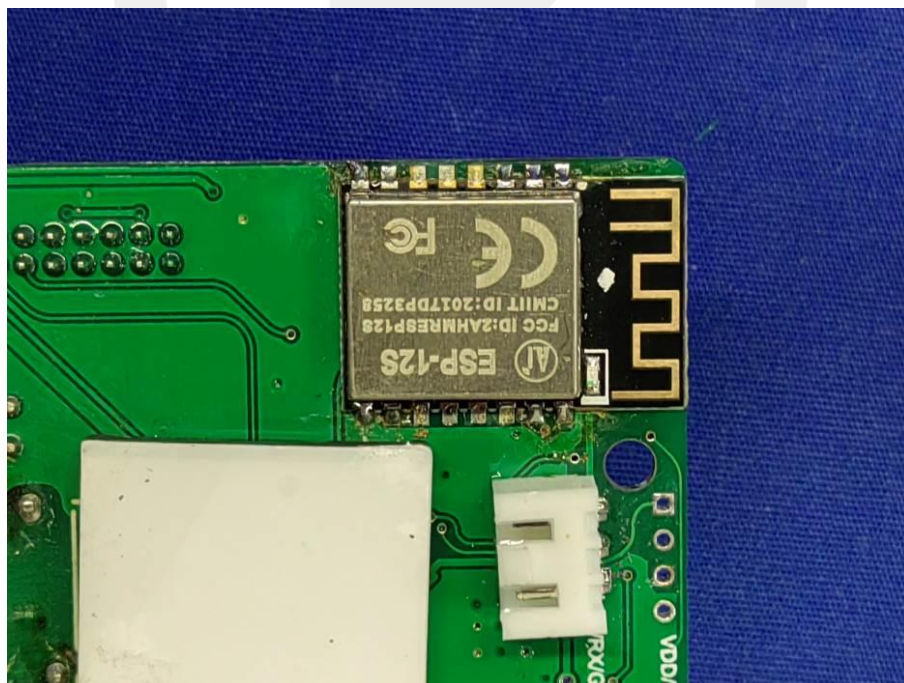
EUT View 10



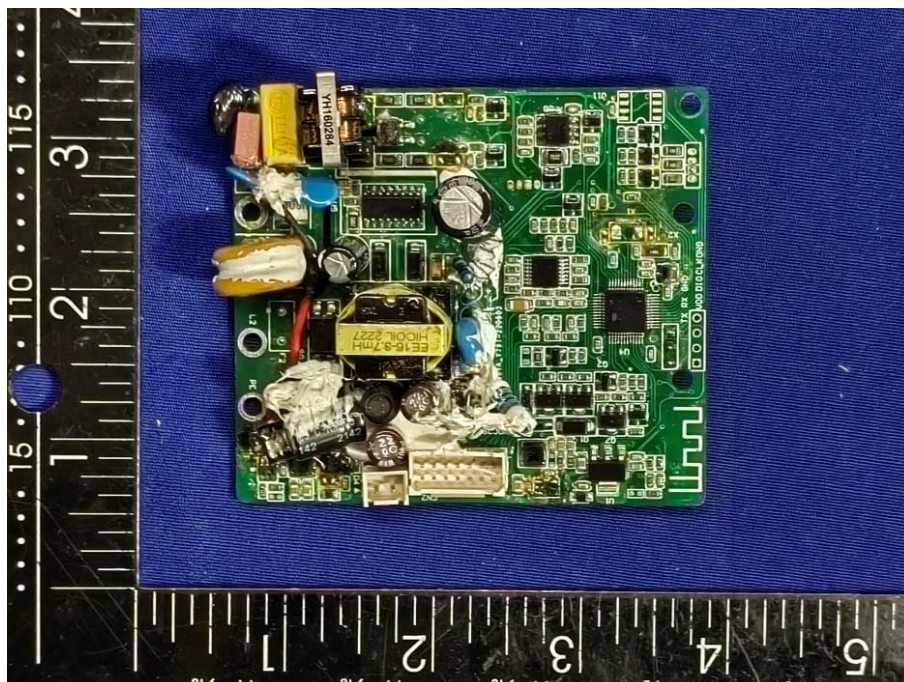
EUT View 11



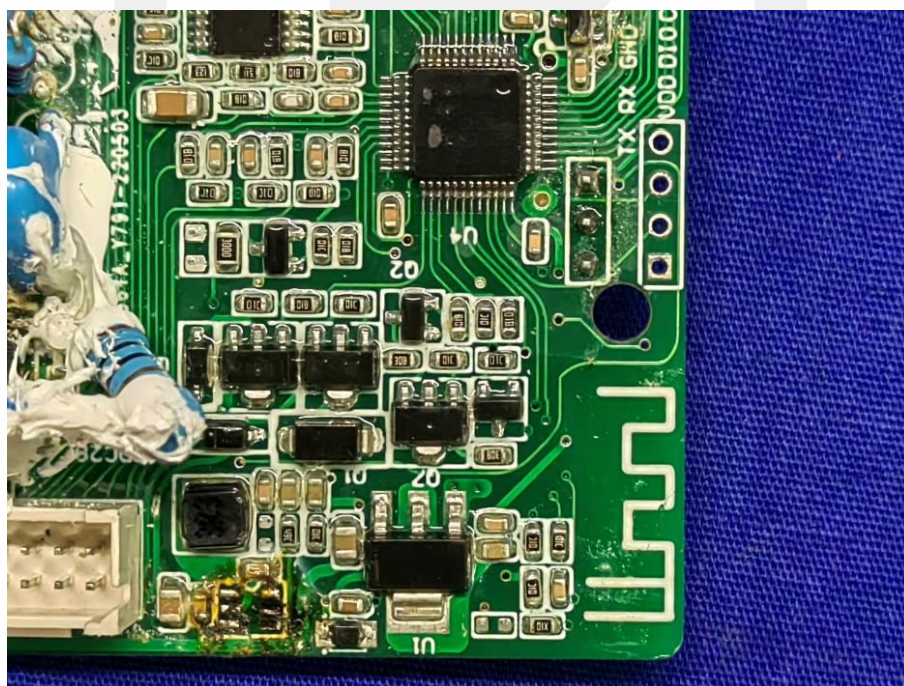
EUT View 12



EUT View 13



EUT View 14



-----The end-----